

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 09/847061

Filing Date: May 1, 2001

Title: POLYHYDROXY GLYCOPEPTIDE DERIVATIVES

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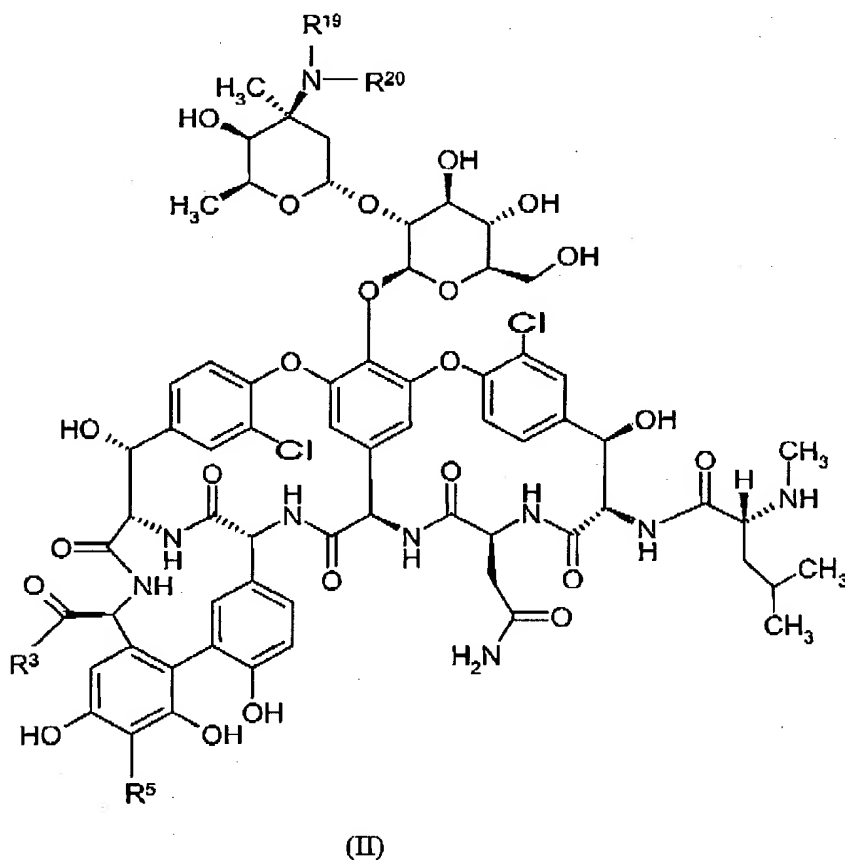
Amendments to the Claims

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

Listing of the Claims

Claims 1-6 (Canceled).

Claim 7. (Currently Amended) A glycopeptide of formula II:



wherein:

 R^3 is -OH;

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R^5 is hydrogen;

R^{19} is hydrogen;

R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ or $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$;

R^{17} is hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, or heterocyclic;

Y is selected from the group consisting of oxygen, sulfur, $-\text{S}-\text{S}-$, $-\text{NR}^c-$, $-\text{S}(\text{O})-$, $-\text{SO}_2-$, $-\text{NR}^c\text{C}(\text{O})-$, $-\text{OSO}_2-$, $-\text{OC}(\text{O})-$, $-\text{NR}^c\text{SO}_2-$, $-\text{C}(\text{O})\text{NR}^c-$, $-\text{C}(\text{O})\text{O}-$, $-\text{SO}_2\text{NR}^c-$, $-\text{SO}_2\text{O}-$, $-\text{P}(\text{O})(\text{OR}^c)\text{O}-$, $-\text{P}(\text{O})(\text{OR}^c)\text{NR}^c-$, $-\text{OP}(\text{O})(\text{OR}^c)\text{O}-$, $-\text{OP}(\text{O})(\text{OR}^c)\text{NR}^c-$, $-\text{OC}(\text{O})\text{O}-$, $-\text{NR}^c\text{C}(\text{O})\text{O}-$, $-\text{NR}^c\text{C}(\text{O})\text{NR}^c-$, $-\text{OC}(\text{O})\text{NR}^c-$, $-\text{C}(=\text{O})-$ and $-\text{NR}^c\text{SO}_2\text{NR}^c-$;

each Z is independently selected from hydrogen, aryl, cycloalkyl, cycloalkenyl, heteroaryl and heterocyclic;

R^b is selected from the group consisting of a covalent bond, alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene and substituted alkynylene, provided R^b is not a covalent bond when Z is hydrogen;

each R^c is independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic and $-\text{C}(\text{O})\text{R}^d$;

each R^d is independently selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic; and

x is 1 or 2;

or a pharmaceutically acceptable salt, stereoisomer, or prodrug thereof salt or a stereoisomer thereof.

Claims 8-12 (Canceled).

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Claim 13. (Previously Presented) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 7.

Claim 14. (Previously Presented) The pharmaceutical composition of claim 13, wherein the composition further comprises a cyclodextrin.

Claim 15 (Canceled).

Claim 16. (Withdrawn) A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a glycopeptide of claim 7.

Claim 17. (Withdrawn) A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a pharmaceutical composition of claim 13.

Claim 18. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$ and R^{17} is alkyl.

Claim 19. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$ and R^{17} is aryl.

Claim 20. (Currently Amended) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ and Y is an NH- group.

Claim 21. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ and Y is oxygen.

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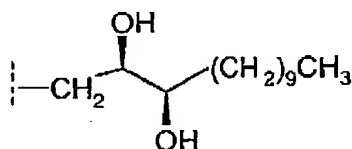
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Claim 22. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ and Y is sulfur.

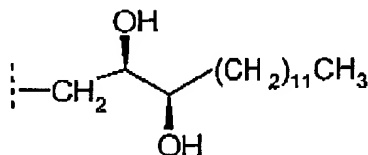
Claim 23. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ and R^b is alkylene.

Claim 24. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$ and Z is hydrogen.

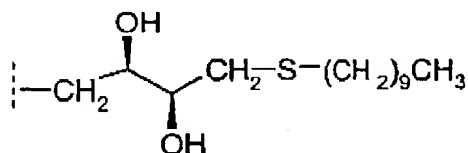
Claim 25. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is a group of the formula:



Claim 26. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is a group of the formula:



Claim 27. (Previously Presented) The glycopeptide of Claim 7, wherein R^{20} is a group of the formula:



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Claim 28. (Previously Presented) The glycopeptide of Claim 7, wherein R²⁰ is a group of the formula:

